

Name \_\_\_\_\_

## **Can a Magnet's Force Pass Through Solid Objects?**

### **Our Question**

Can a Magnet's Force Pass Through Solid Objects?

### **What I Already Know**

Here are some things I already know about the question:

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### **What I Think Will Happen – My Hypothesis**

This is what I think will happen:

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I think this because:

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### **Materials That We Will Use**

Bar magnet  
Piece of paper  
Piece of cardboard  
Spiral notebook  
Piece of graph paper

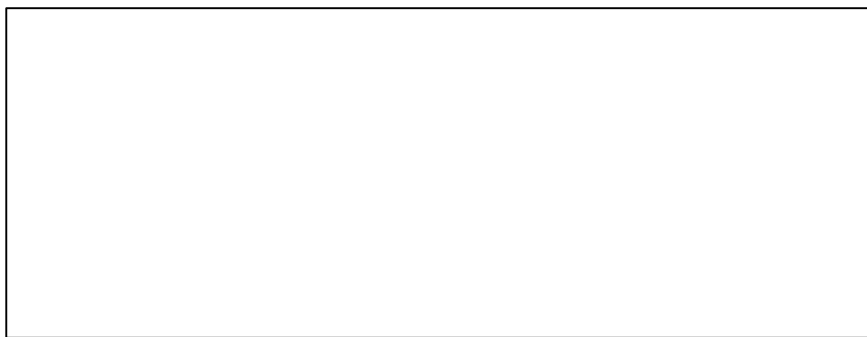
One paper clip

## Procedure

Step 1: Place the graph paper in the middle of your group's table.

Step 2: Have one member of your group hold the thin paper at one end of the graph paper, have another member of your group place the paper clip at the opposite end of the graph paper.

Step 3: Have a third member of your group place the magnet up against the paper so that the paper is in between the magnet and the paper clip.



Step 4: Move the paper clip closer to the thin paper one square at a time. Stop on each square to see if the magnet attracts the paper clip.

Step 5: If the paper clip begins to move toward the magnet, record the distance in squares from the paper clip to the thin paper.

Step 6: Repeat steps 4 and 5 with the cardboard. Record your observations.

Step 7: Repeat steps 4 and 5 with the notebook. Record your observations.

### My Observations:

<i>Material</i>	<i>Distance in Squares</i>
Thin Paper	
Cardboard	
Notebook	

### Summary of My Results

(What did you see happen? Did the paper clip move when you used the paper? The cardboard? The notebook? Did it move on the same square for each?)

The summary of my results:

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**My Answer to the Question**

My answer to the question is:

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**My Reasons for My Answer**

I think this is the answer because I observed:

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**Possible Errors?**